WAVELENGTH DIVISION MULTIPLEXING AND DE-MULTIPLEXING SYSTEM

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1	fiber Bragg grating
2	grating region
3	interlayer
4	laser beam
5	reflected beam
6	passed beam
100	Bragg grating
102	laser beam
104	substrate
106	reflective layer
108	grating region
110	interlayer
112	first transmissive material
114	second transmissive material
116	over-fill layer
118	reflected beam
120	passed beam
202	substrate
204	photoresist layer
204a	unexposed region
204b	exposed region
206	photomask
208	pre-designated pattern
212	light
214	transmissive layer
216	air gap
218	photoresist layer
218a	unexposed region
218b	exposed regions
220	photomask
222	grating pattern
224	light
226	grating region
228	over-fill layer
230	interlayer array
232	transmissive layer
240	light beam
242	strayed portions
244	interface
246	interface
248	reflected portion
250	passed portion
302	substrate
304	grating region
306	mask
308	grating pattern
310	interlayer array
400	process
402-412	step
422-462	sub-step
500	linear grating
502	background material
504	interlayer material
506	thickness
508	separation
510	light beam
512	reflected beam
514	passed beam
600	planar grating
602	background
604	cells
606	XYZ-axes icon
608	thickness
610	separation
612	thickness
614	separation
616	light beam
618	diffracted beam
620	passed beam

700 cubical grating
702 background
704 cells
706 XYZ-axes icon
708 light beam
710 first diffracted beam
712 second diffracted beam
714 passed beam

800 generic grating
802 background
804 cell
806 thickness
808 light beam
810 first surface
812 first reflected portion
814 first refracted portion
816 second surface
818 second reflected portion
820 transmitted portion
822 second refracted portion
826 vertical separation
828 horizontal separation
830 vertical separation

850 grating
852 background
854 cells
856 horizontal thickness
858 vertical thickness
860 horizontal separation
862 first vertical separation
864 second vertical separation
866 first portions
868 first portions
868 second portions

880 grating
882 cells
884 first portions
886 second portions
888 third portions

1000 multiplexing system
1002 light sources
1004 light beam
1006 WDM device
1008 light beam
1010 light target

1100 de-multiplexing system
1102 light source
1104 light beam
1106 WDM device
1108 light beams
1110 light targets

1200 multiplexing device
1202 first planar grating
1204 second planar grating
1206 third planar grating
1208 first input beam
1210 second input beam
1212 third input beam
1214 fourth input beam
1216 first output beam
1218 second output beam
1220 third output beam

1300 multiplexing device
1302 first cubical grating
1304 second cubical grating
1306 third cubical grating
1308 first input beam
1310 second input beam
1312 third input beam
1314 fourth input beam
1316 fifth input beam
1318 sixth input beam
1320 seventh input beam
1322 first output beam
1324 second output beam
1326 third output beam

1400 de-multiplexing device
1402 first planar grating
1404 second planar grating
1406 third planar grating
1408 input beam
1410 first diffracted beam
1412 first intermediate beam
1414 second diffracted beam

1416 second intermediate beam
1418 third diffracted beam
1420 output beam

1500 de-multiplexing device
1502 first cubical grating
1504 second cubical grating
1506 third cubical grating
1508 input beam
1510 first diffracted beam
1512 second diffracted beam
1514 first intermediate beam
1516 third diffracted beam
1518 fourth diffracted beam
1520 second intermediate beam
1522 fifth diffracted beam
1524 sixth diffracted beam
1526 output beam

1600 de-interleaver
1602 center drating block

1602 center grating block
1604 first grating block
1606 second grating block
1608a-f cubical gratings
1610a-f gratings
1612a-f gratings
1614 input beam
1616 input source
1618 first output beam
1620 first output target
1622 second output beam
1624 second output target

1700 interleaver
1702 first input beam
1704 second input beam
1706 first input source
1708 second input source
1710 output beam
1712 output target

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Application deficiencies found during scanning:

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☐ ***Scanned copy is best available.*** Drawing Fig 4D, 4E, 4J, & K, 4M, are very Dark